

Expand and Simplify

i) $6(8 + 3c) - 4(10 + 2c)$

ii) $2ab$ $3c^2$ $A = ?$
 $P = ?$

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Expand and Simplify

i) $6(8 + 3c) - 4(10 + 2c)$

$48 + 18c - 40 - 8c$

$+8 + 10c$

$10c + 8$

ii) $2ab$ $3c^2$ $A = ?$
 $P = ?$

$A = l \times w$
 $= (3c^2)(2ab)$
 $= 6abc^2$

$P = 2l + 2w$
 $P = 2(3c^2) + 2(2ab)$
 $P = 6c^2 + 4ab$

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iii) $15x^2y^3 - 20x^5y^2 + 25x^3y^4$

$5x^1y^2$

$3xy - 4x^4 + 5x^2y^2$

iv) $-2(-y^2 - y - 1)$

$+2y^2 + 2y + 2$

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Factor

iii) $15x^2y^3 - 20x^5y^2 + 25x^3y^4$

$5x^1y^2$

$3x^1y^1 - 4x^4 + 5x^2y^2$

iv) $-2(-y^2 - y - 1)$

$+2y^2 + 2y + 2$

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v) $9 = \left[\frac{3(k+4)}{2} \right]$

vi) Jack is selling used computers. He is paid \$15/hr plus a 5% commission on sales.

Write as a polynomial.

$h = \# \text{ of hours}$
 $c = \# \text{ of sales}$

$E = 15h + 0.05c$

What dollar amount of computer sales must Jack to earn \$1000 in a 40 hr work week?

$h = 40$
 $E = 1000$
 $E = 15h + 0.05c$
 $1000 = 15(40) + 0.05c$
 $1000 = 600 + 0.05c$
 $1000 - 600 = 0.05c$
 $400 = 0.05c$
 $\frac{400}{0.05} = \frac{0.05c}{0.05}$
 $8000 = c$

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v) $9 = \left[\frac{3(k+4)}{2} \right]$

vi) Jack is selling used computers. He is paid \$15/hr plus a 5% commission on sales.

What dollar amount of computer sales must Jack to earn \$1000 in a 40 hr work week?

$S = 15 \times \text{hrs} + 0.05 \times \text{sales}$

$1000 = 15 \times \text{hrs} + 0.05 \times \text{sales}$
 $1000 = 15(40) + 0.05s$
 $1000 = 600 + 0.05s$
 $1000 - 600 = 0.05s$
 $400 = 0.05s$
 $\frac{400}{0.05} = \frac{0.05s}{0.05}$
 $8000 = s$

Therefore Jack sold \$8000 worth of computers this week.

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$$v) 9 = \left[\frac{3(k+4)}{2} \right]$$

vi)

Jack is selling used computers. He is paid \$15/hr plus a 5% commission on sales.

What dollar amount of computer sales must Jack to earn \$1000 in a 40 hr work week?

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$$3b) \text{ 278}$$

$$(5a^3 - 3a^2b + ab^2 + b^3) + (a^3 + a^2b + 4ab^2 + b^3)$$

$$5a^3 - 3a^2b + ab^2 + b^3 + a^3 + a^2b + 4ab^2 + b^3$$

$$6a^3 - 2a^2b + 5ab^2 + 2b^3$$

$$4d) -\frac{2}{3} \left(\frac{1}{4}x - \frac{b}{1} \right) + \frac{3}{4} \left(\frac{2}{3}x + \frac{8}{7} \right)$$

$$\frac{-2x}{12} + \frac{12}{3} + \frac{6x}{12} + \frac{24}{4}$$

$$\frac{-2x}{12} + \frac{4}{4} + \frac{6x}{12} + \frac{6}{4}$$

$$\frac{1}{3}x + 10$$

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$$\frac{-30x + 24y - 12}{2} - (25x - 30y - 15)$$

$$-15x + 12y - 6 - (5x - 6y - 3)$$

$$-15x + 12y - 6 - 5x + 6y + 3$$

$$-20x + 18y - 3$$

p274-277

q1-7

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